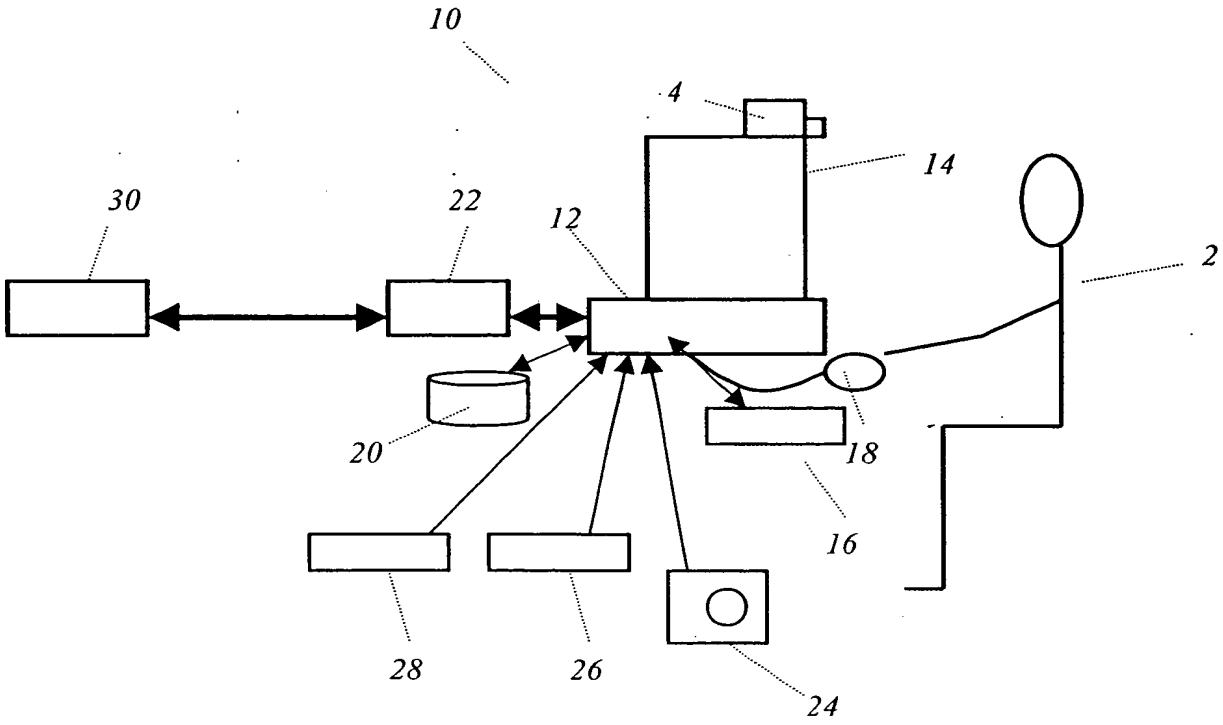

FIG. 1

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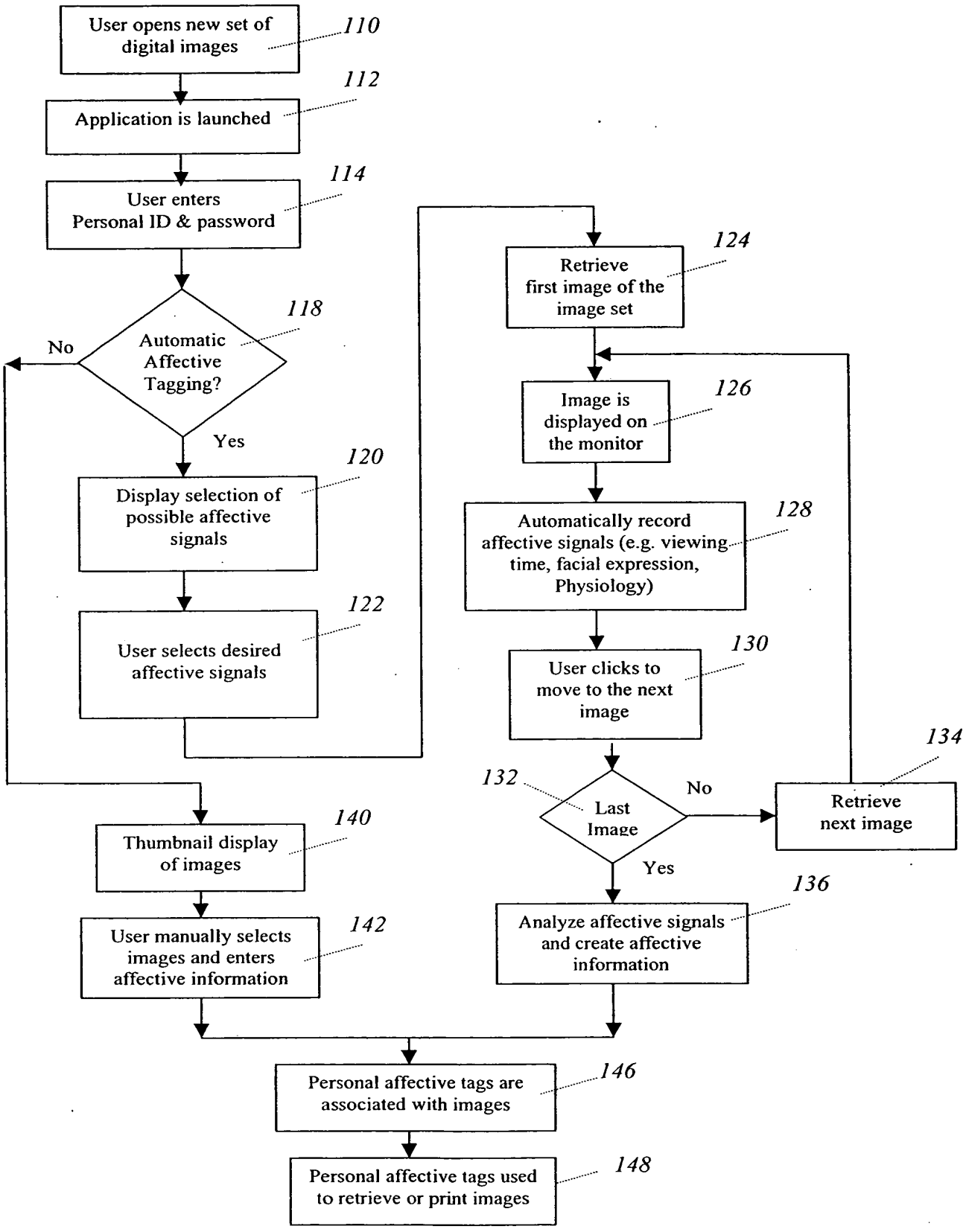
User opens new set of digital images
110
Application is launched
112
User enters Personal ID & password
114
Automatic Affective Tagging?
118
No
Yes
Display selection of possible affective signals
120
User selects desired affective signals
122
Thumbnail display of images
140
User manually selects images and enters affective information
142
Retrieve first image of the image set
124
Image is displayed on the monitor
126
Automatically record affective signals (e.g. viewing time, facial expression, Physiology)
128
User clicks to move to the next image
130
Last Image
132
No
Yes
Retrieve next image
134
Analyze affective signals and create affective information
136
Personal affective tags are associated with images
146
Personal affective tags used to retrieve or print images
148

Fig. 2

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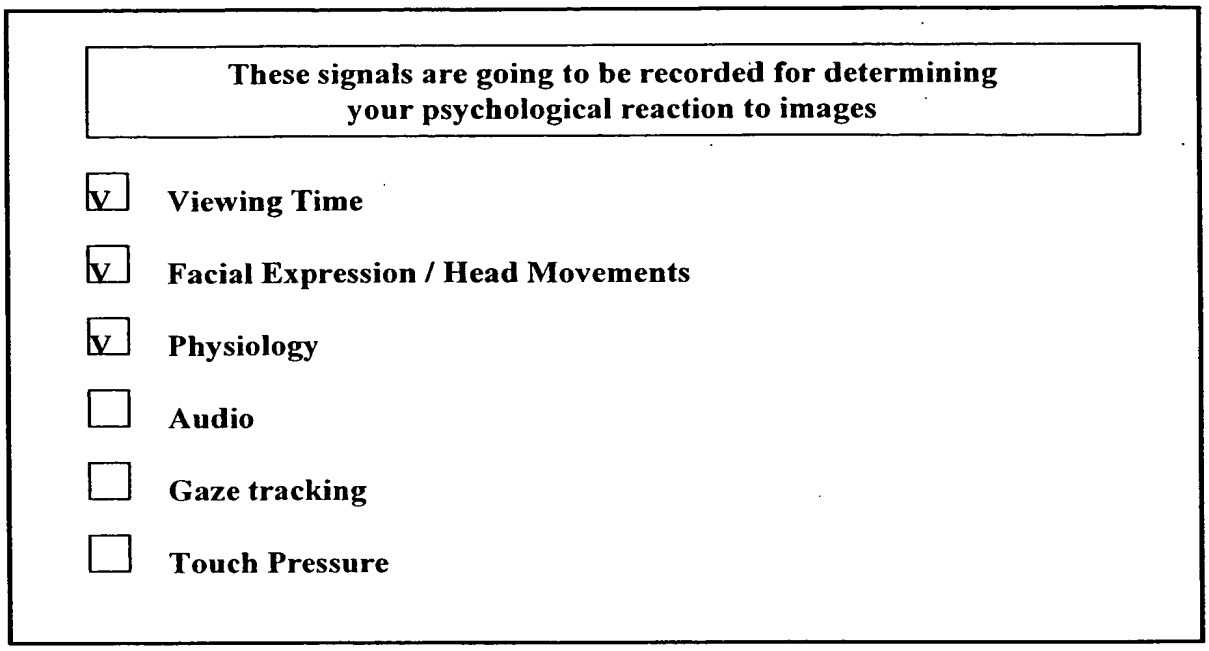

Fig. 3A. GUI screen with signals recording selection

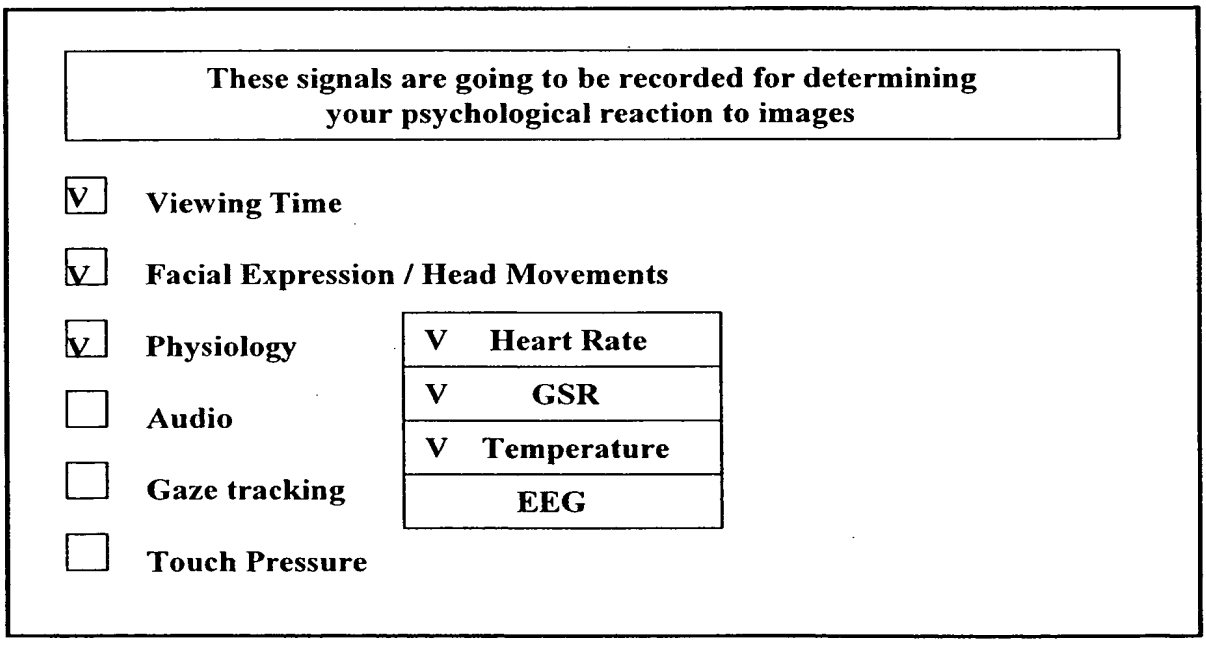

Fig. 3B. GUI screen with signals recording selection and physiological signals menu.

Personal Affective Tag field - PAT
Personal Identification field – PID_1
Affective Record Start field – BEGIN_RECORD_1
Date field – DATE
Location field – LOCATION
Affect field – AFFECT
Viewing time field – VIEWING_TIME
Physiology GSR field – GSR_SIGNAL
Physiology Temperature field – TEMP_SIGNAL
Ambient Temperature – AMBIENT_TEMP_SIGNAL
Physiology Heart Rate field – HR_SIGNAL
Face Expression field – FACE_EXPRESSION_DATA
Affective Record Start field – BEGIN_RECORD_2
Date field - DATE
Location field – LOCATION
Affect field – AFFECT
Viewing time field – VIEWING_TIME
Physiology GSR field – GSR_SIGNAL
Physiology Temperature field – TEMP_SIGNAL
Physiology Heart Rate field – HR_SIGNAL
Physiology EEG field – EEG_SIGNAL
Face Expression field – FACE_EXPRESSION_DATA
Gaze tracking field – GAZE_TRACKING_DATA
Behavior Record Start field – BEGIN_RECORD_3
Number of times viewed field – VIEWING_COUNTER
Number of times printed field – PRINTING_COUNTER
Number of times sent in e-mail field – E_MAIL_COUNTER

Fig. 4A

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Personal Affective Tag 1
Personal Identification = User 1
Date = Aug 1, 2000
Importance = 8.....
Personal Affective Tag 2
Personal Identification = User 2
Date = July 4, 2001
Importance = 4.....
Personal Affective Tag 3
Personal Identification = User 1
Date = Oct 8, 2001
Importance = -5.....

Fig. 4B

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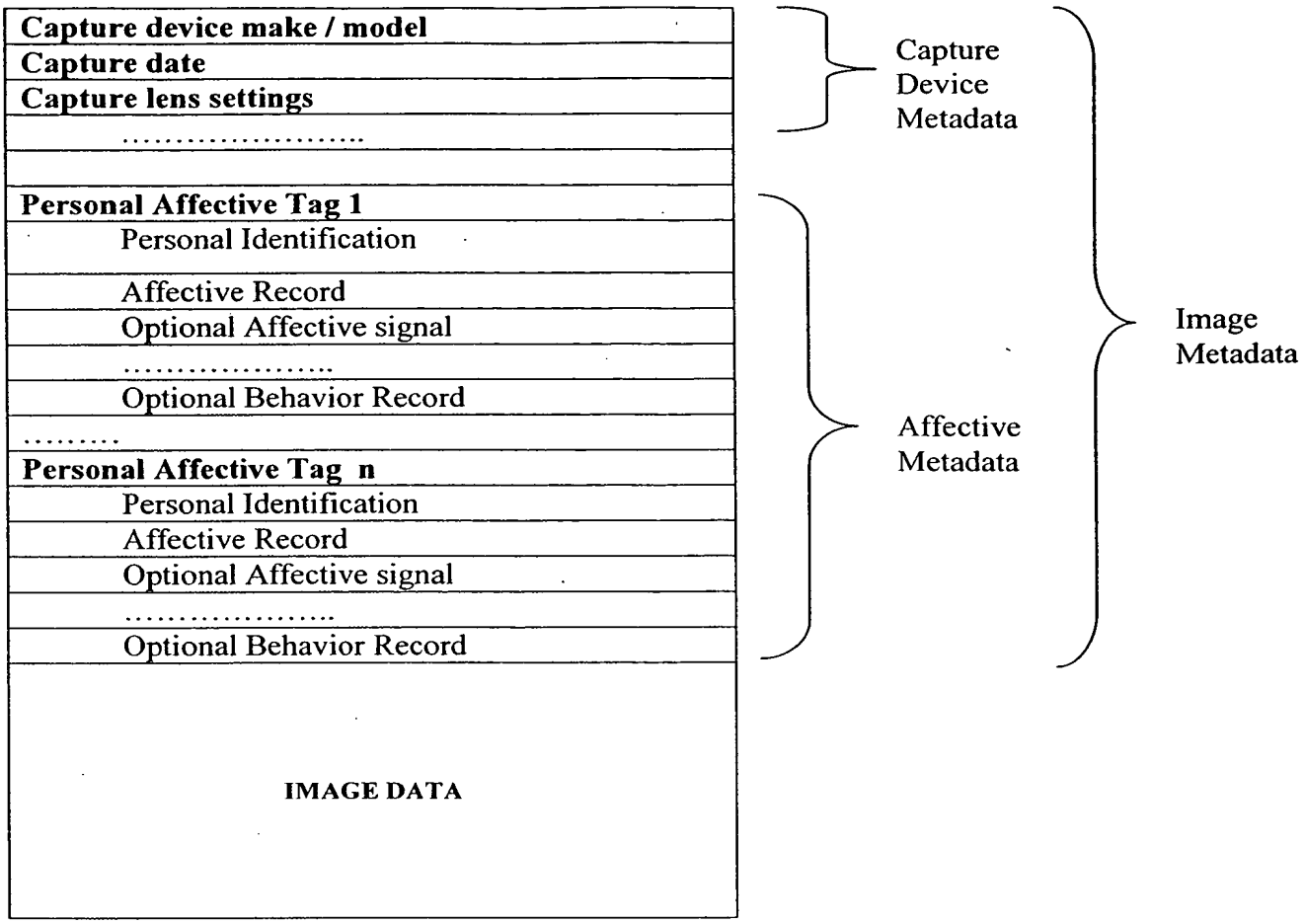
Capture device make / model
Capture date
Capture lens settings
.....
Personal Affective Tag 1
Personal Identification
Affective Record
Optional Affective signal
.....
Optional Behavior Record
.....
Personal Affective Tag n
Personal Identification
Affective Record
Optional Affective signal
.....
Optional Behavior Record
IMAGE DATA
Capture Device Metadata
Affective Metadata
Image Metadata

Fig 4C

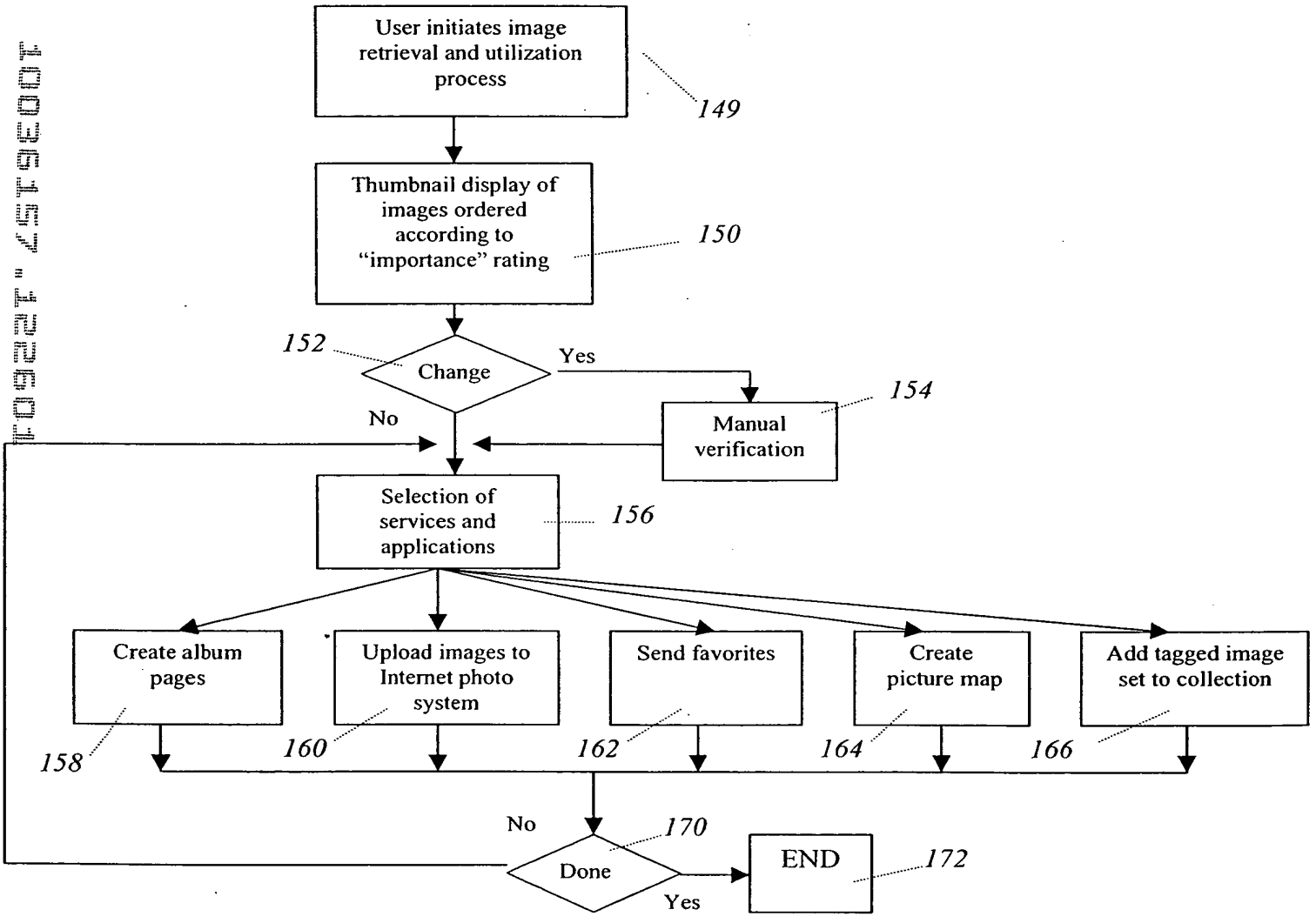
User initiates image retrieval and utilization process
149
Thumbnail display of images ordered according to "importance" rating
150
152
Change
Yes
154
Manual verification
No
Selection of services and applications
156
Create album pages
Upload images to Internet photo system
Send favorites
Create picture map
Add tagged image set to collection
158
160
162
164
166
No
170
Done
Yes
END
172

Fig. 5

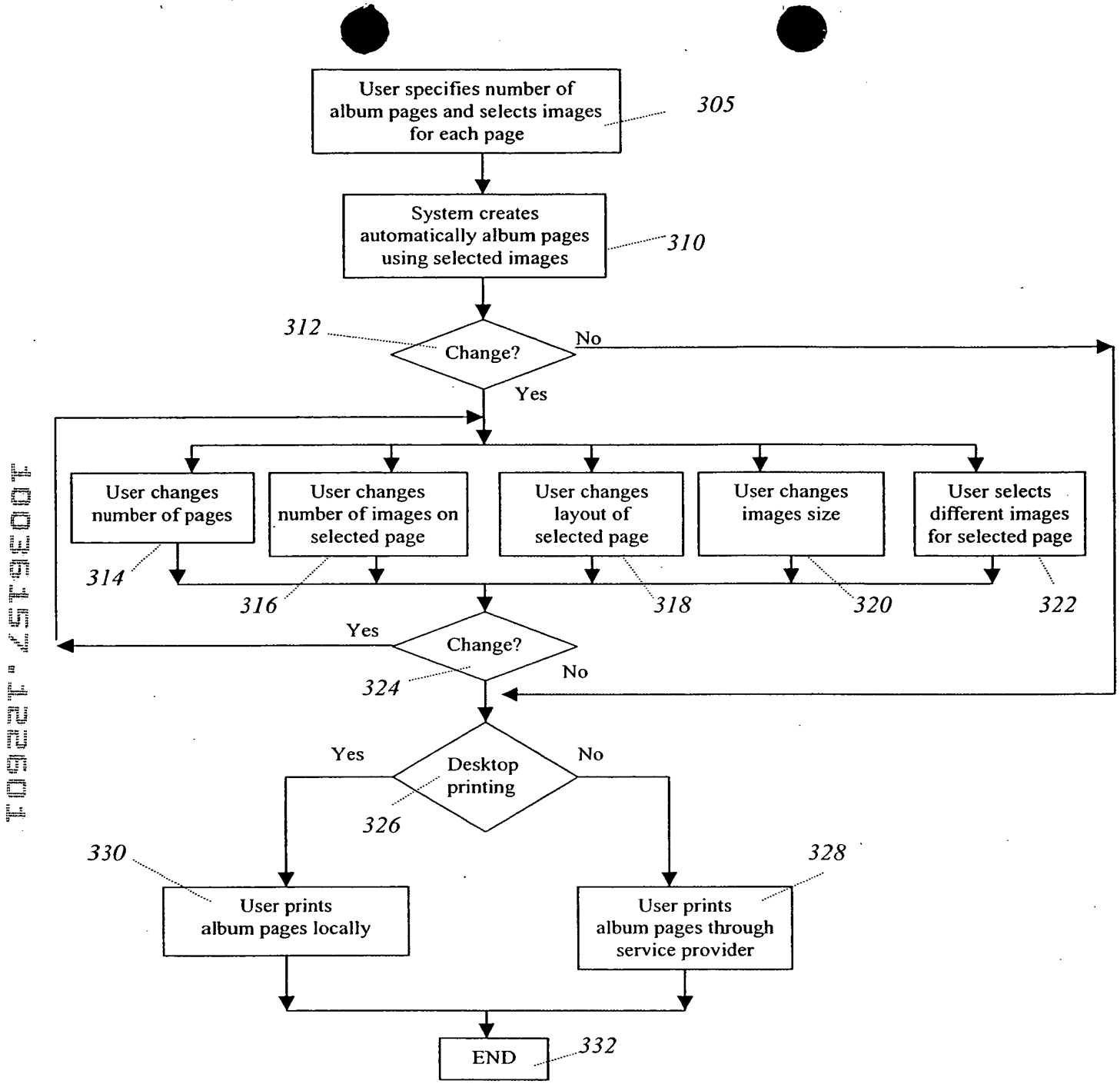
User specifies number of album pages and selects images for each page
305
System creates automatically album pages using selected images
310
312
Change?
No
Yes
User changes number of pages
User changes number of images on selected page
User changes layout of selected page
User changes images size
User selects different images for selected page
314
316
318
320
322
Yes
Change?
No
324
Yes
Desktop printing
No
326
330
328
User prints album pages locally
User prints album pages through service provider
END
332

Fig. 6.

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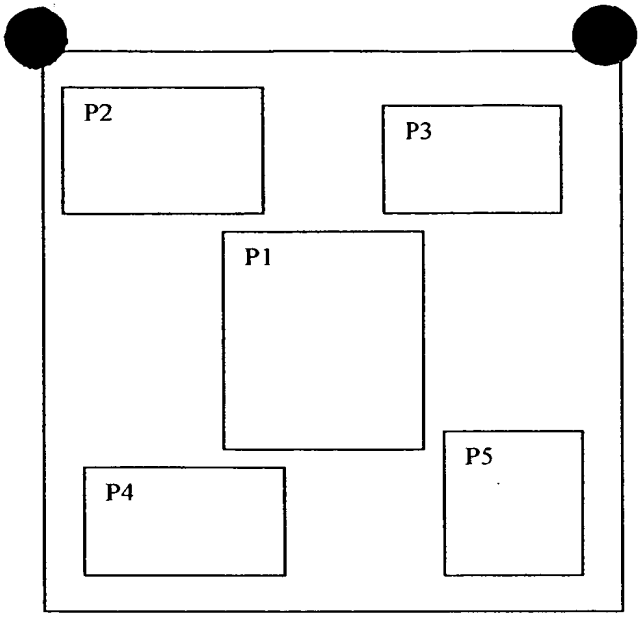


Fig. 7A. Album pages created by the system.

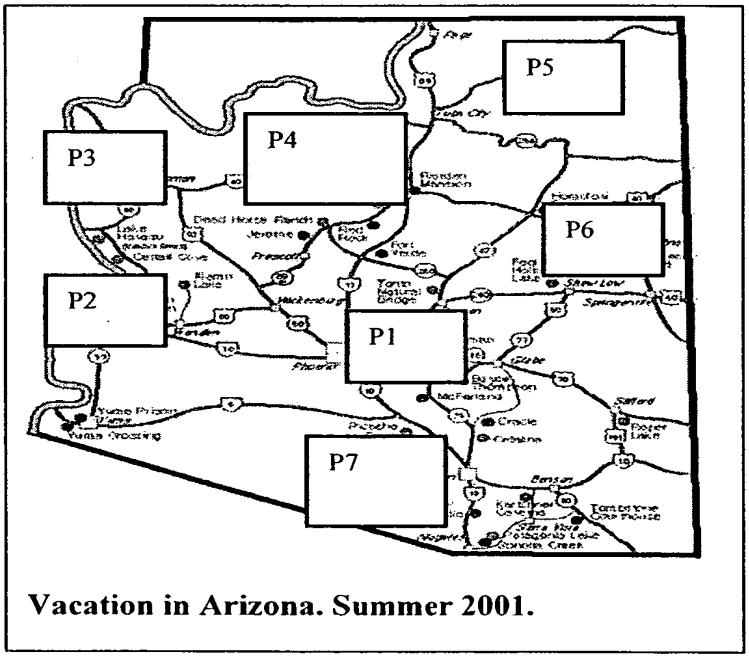
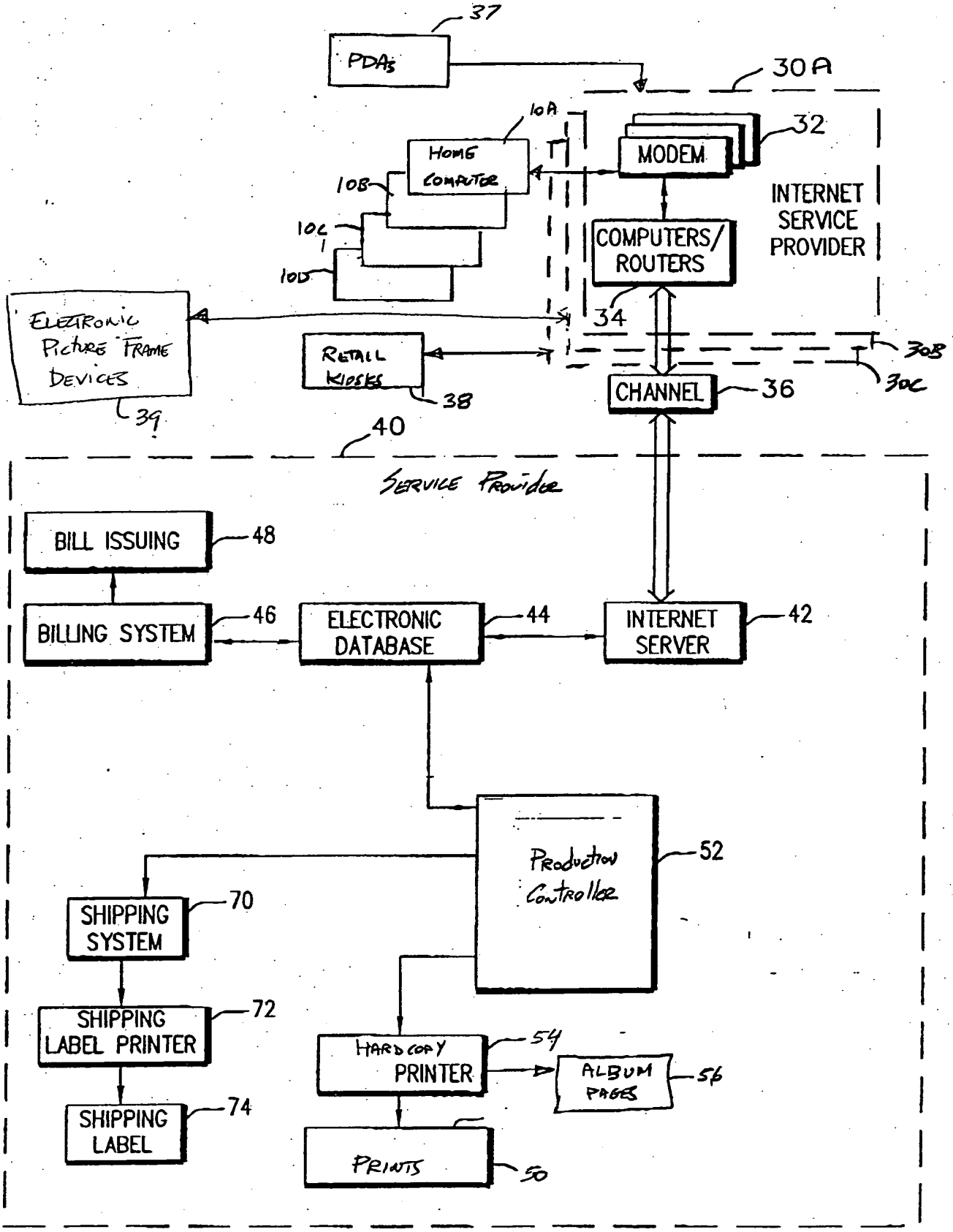


Fig. 7B. Picture map created by the system.

FIG. 8


37
PDAs
30A
10A
HOME COMPUTER
32
MODEM
10B
10C
10D
INTERNET SERVICE PROVIDER
COMPUTERS/ ROUTERS
ELECTRONIC PICTURE FRAME DEVICES
39
34
RETAIL KIOSKS
38
30B
30C
CHANNEL
36
40
SERVICE PROVIDER
BILL ISSUING
48
BILLING SYSTEM
46
ELECTRONIC DATABASE
44
INTERNET SERVER
42
Production Controller
52
SHIPPING SYSTEM
70
SHIPPING LABEL PRINTER
72
SHIPPING LABEL
74
HARD COPY PRINTER
54
ALBUM PAGES
56
PRINTS
50

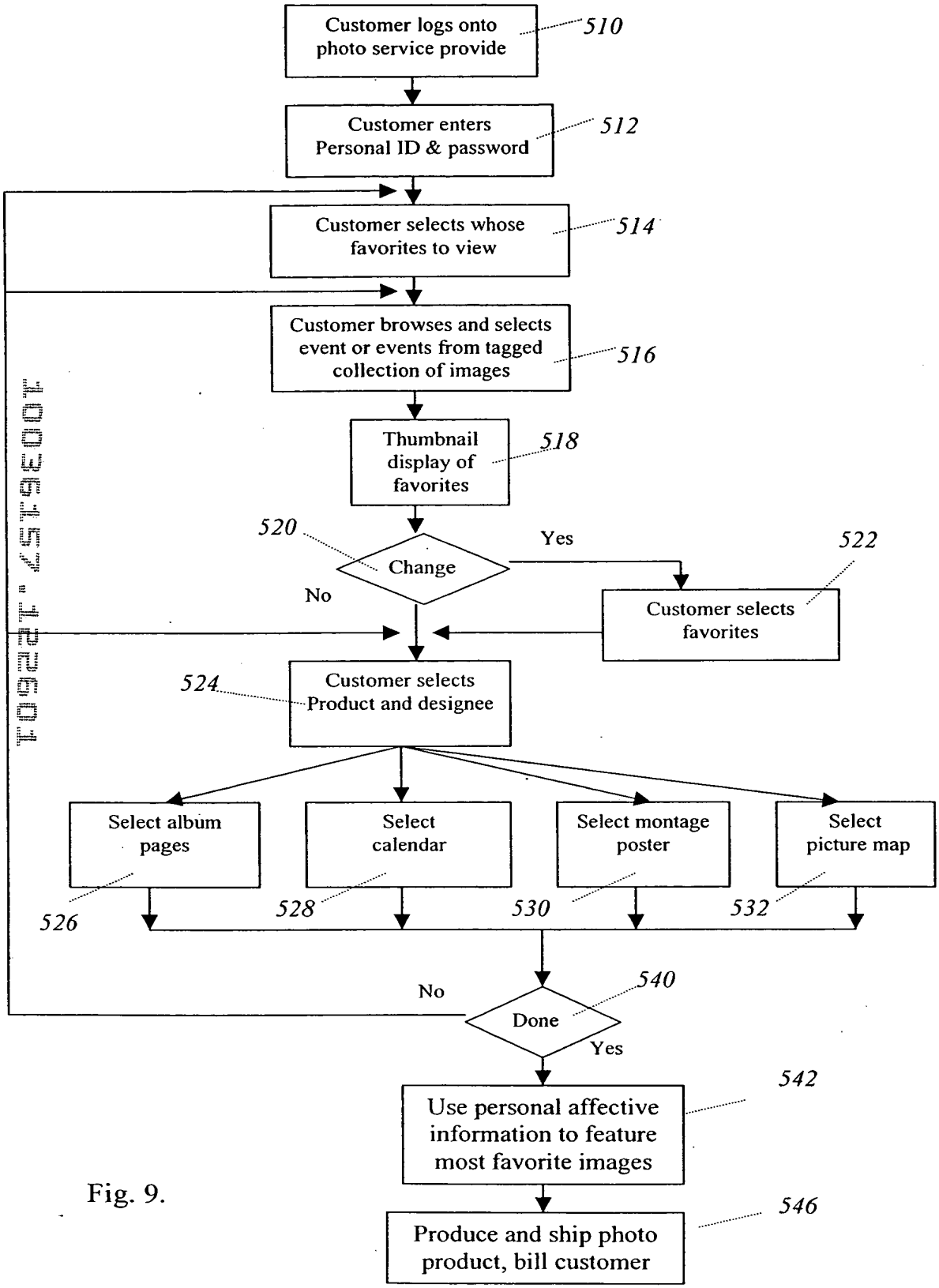

Customer logs onto photo service provide
510
Customer enters Personal ID & password
512
Customer selects whose favorites to view
514
Customer browses and selects event or events from tagged collection of images
516
Thumbnail display of favorites
518
520
Change
Yes
No
522
Customer selects favorites
524
Customer selects Product and designee
Select album pages
Select calendar
Select montage poster
Select picture map
526
528
530
532
No
540
Done
Yes
542
Use personal affective information to feature most favorite images
546
Produce and ship photo product, bill customer

Fig. 9.